26 August 1964

STAT

STAT

Subject: Engineering Proposed Solution to Achieve Counting Rates in λ and 2λ

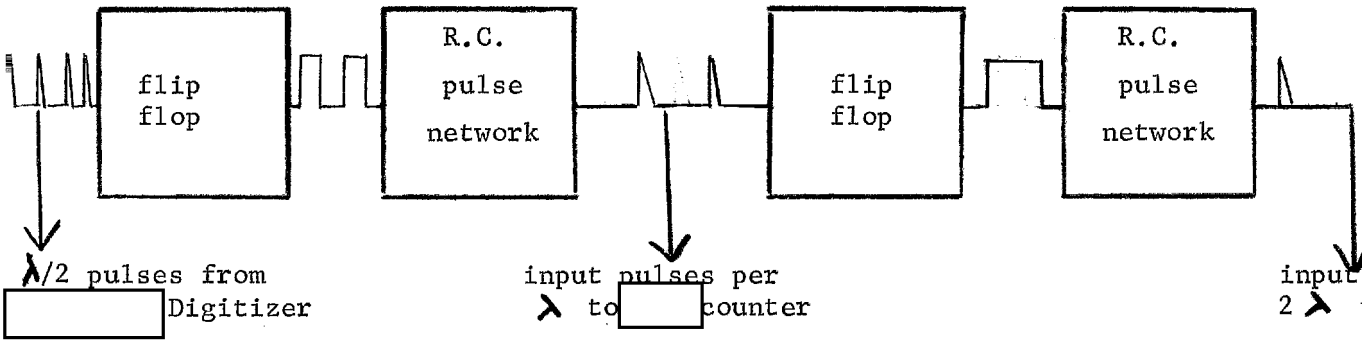
Enclosures: Drawings 108024 and 108025 STAT

Gentlemen,

drawing #108024 is the information you requested August 17, 1964 pertaining to the output pulse from the Digitizer to the counter and the change in D.C. level of the pulse with counter load. STAT STAT

For your information, the standard wave shape supplied by the Digitizer to its counter is on drawing #108025 which is also enclosed. STAT STAT STAT

The interferometer counts in increments. These increments are supplied as standard position of the interferometer which are $\lambda/2$, $\lambda/4$, $\lambda/6$ and $\lambda/8$. In order to count in increments of 2λ and λ in addition to the above, two flip flops must be provided as an input to the counter. These circuits must be between the counter and the Digitizer as shown below. Same circuit used for add and subtract. STAT STAT STAT



STAT STAT STAT

These circuits are standard devices for dividing frequency by factor of 2. can provide these circuits as a part of their equipment, based on discussions with approximately a year ago. STAT STAT

Should you have any questions in relation to the foregoing, please contact the undersigned.

STAT

STAT